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**From:** CN=Chip Humphrey/OU=R10/O=USEPA/C=US  
**Sent:** Wed 11/21/2012 4:57:21 PM  
**Subject:** Fw: Quick BERA summary  
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Burt - let's discuss this list before I get back to Susan.

----- Forwarded by Chip Humphrey/R10/USEPA/US on 11/21/2012 08:49 AM -----

**From:** "Penoyar, Susan" <Penoyarsj@cdmsmith.com>  
**To:** Kristine Koch/R10/USEPA/US@EPA, Chip Humphrey/R10/USEPA/US@EPA  
**Cc:** "Keefe, Jennifer" <KeefeJM@cdmsmith.com>, "Gendusa, Tony" <GendusaTC@cdmsmith.com>  
**Date:** 11/20/2012 02:23 PM  
**Subject:** Quick BERA summary

Hi, Chip and Kristine. As a follow-up to our meeting last week in Portland, I thought it might be helpful for you to have a brief summary of the what CDM Smith has been recently helping Burt with for the BERA, and the status of continued tasks to support completing the BERA. The third and last bullets, regarding risk management recommendations and development of sediment PRGs, are the most critical. Our recent activities include:

Identification of the ecological risk drivers -- Starting with the Burt/Tony comprehensive table of BERA lines of evidence and related information, CDM Smith provided a first cut at limiting the list of risk driver chemicals to Burt on 9/24 in preparation for the October 16/17 BERA group meeting in Portland. This concise risk driver table was further refined during and following the meeting in Portland to facilitate PRG development and preliminary selection. Members of the group participating in the meeting finalized the list and no further action is needed to refine the risk driver list.

BERA comment response binning/EPA response to LWG comment response – CDM Smith provided to Burt an excel file that placed the LWG responses to EPA comments into “bins” by topic as provided in Burt’s meeting agenda from 10/3 and supplemented by additional recommended bins of COPC refinement, TPH, and models, with one topic (or bin) per tab. This binning process was completed to facilitate the team’s development of final responses or directions to LWG during the October 16/17 meeting in Portland. It was distributed to the group prior to the meeting and was used during day 1 of the meeting. At the meeting, Burt indicated that he would ask Jenn Keefe to assist him in developing formal responses as he thought we were required to provide responses to each LWG comment response. We are awaiting further direction from Burt to identify CDM Smith’s task(s), if any, to assist in developing EPA responses to LWG comment responses.

Risk management recommendation development – CDM Smith summarized the BERA team risk management recommendations developed during the October 16/17 BERA meeting, including responses to LWG risk management, and provided them to Burt. We understand that Burt intends to complete this summary of the risk management recommendations, send it to the BERA team for input, incorporate BERA team feedback, and then provide final risk management recommendations to you as a list and accompanying memo.

Surface water PRG table – We developed the surface water and TZW PRG tables for Burt’s review and possible revisions/distribution to the team. Four tables were provided. The two backup files identify the COCs (HQ>1) for each medium based on the information provided in the Burt/Tony table. From those tables, the COCs were listed on the associated PRG table. Within each PRG table we provided the range of values followed by the ones selected for use as water TRVs in the BERA as of April 2008. We believe this effort is 95% complete, and anticipate possible minor revisions based on Burt’s review and direction.

Sediment PRG tables – CDM Smith has begun to set up a series of sediment PRG tables similar to those described above for water. We are filling in the table for the sediment COCs based on the information provided in the EPA Problem Formulation and the BERA (the sediment TRVs, dietary TRVs, and tissue residue TRVs). We will fill in the table with the information currently available (TRVs) and will leave placeholders for anticipated information/data for a select group of chemicals and receptors:

Burt intends to provide potential PRGs back-calculated from the Food Web Model or BSAFs for certain chemical/receptor/exposure combinations

Jeremy will provide allowable tissue levels in birds that Burt will then use to back-calculated sediment PRGs. These sediment PRG tables are important as they will provide the range of potential eco PRGs from which to select the FS cleanup numbers for protection of ecological receptors. The draft table with placeholders for input from Jeremy and Burt will be completed by December 5.

Let me know if you have questions or direction for us!

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